CHAPTER 3: MAIN DRIVE SECTION

CONTENTS

1. Theory of Operation
1. Main Drive 1
2. Main Motor Safety Switches 2
3. Drum Positions 3
4. Drum Locking System 5

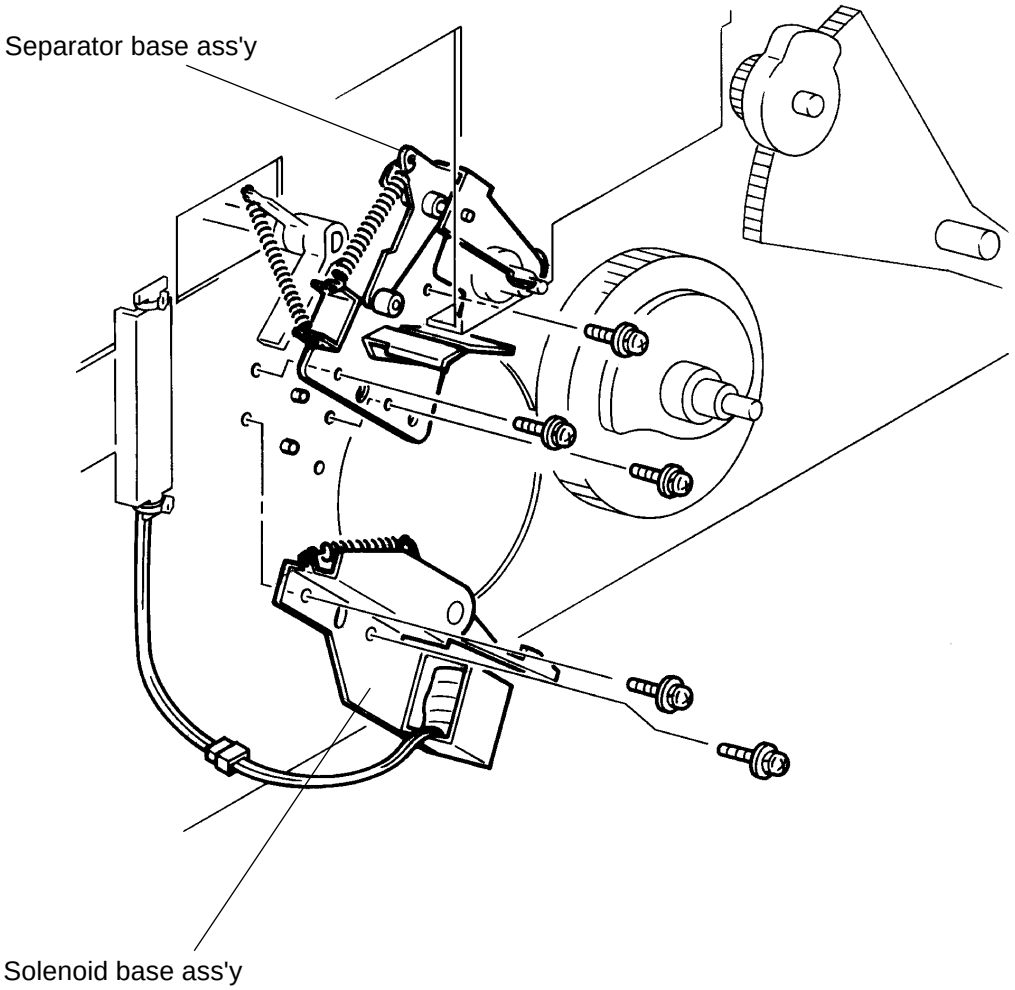
2. Removal and Assembly
1. Main Motor Unit 7
2. Intermediate Gear 9
3. Master Removal Unit Safety Switch 10
4. Master Making Unit Safety Switch 11
5. Drum Safety Switch 12

2. Removal and Assembly

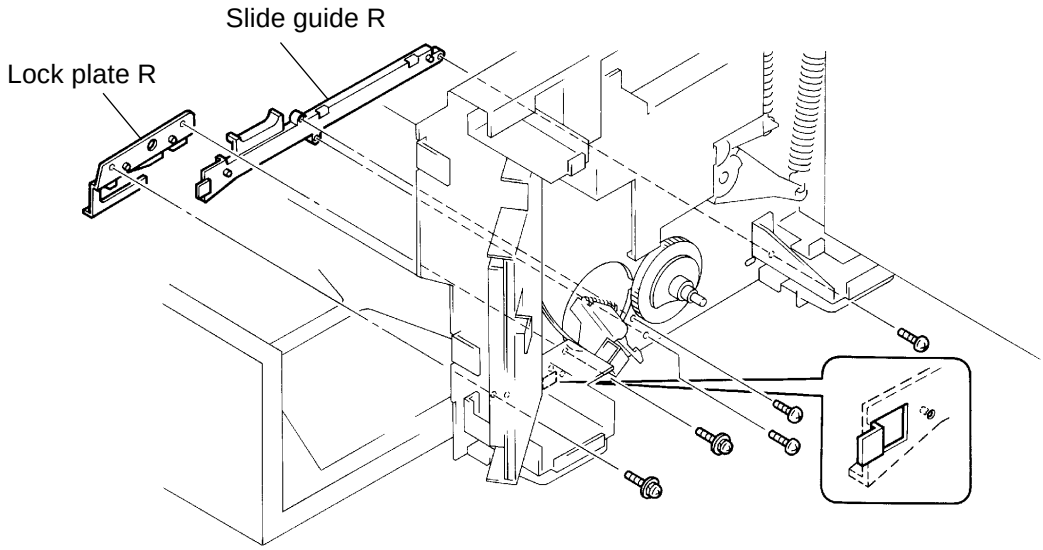
1. Main Motor Unit

1. Remove the Drum from the machine.
2. Disconnect the power supply from the machine.
3. Remove Back cover.
4. Open the Main PCB and Power supply PCB bracket frames.
5. Remove following four parts.
   - Intermediate gear (page 3-9)
   - Print positioning unit (page 5-8)
   - Suction unit (page 7-5)
   - Pressure lever ass'y (page 6-6)
6. Remove two mounting screws of the Solenoid base ass'y and slide the ass'y aside and let it hang.
7. Remove three mounting screws of the Separator base ass'y and remove the ass'y.

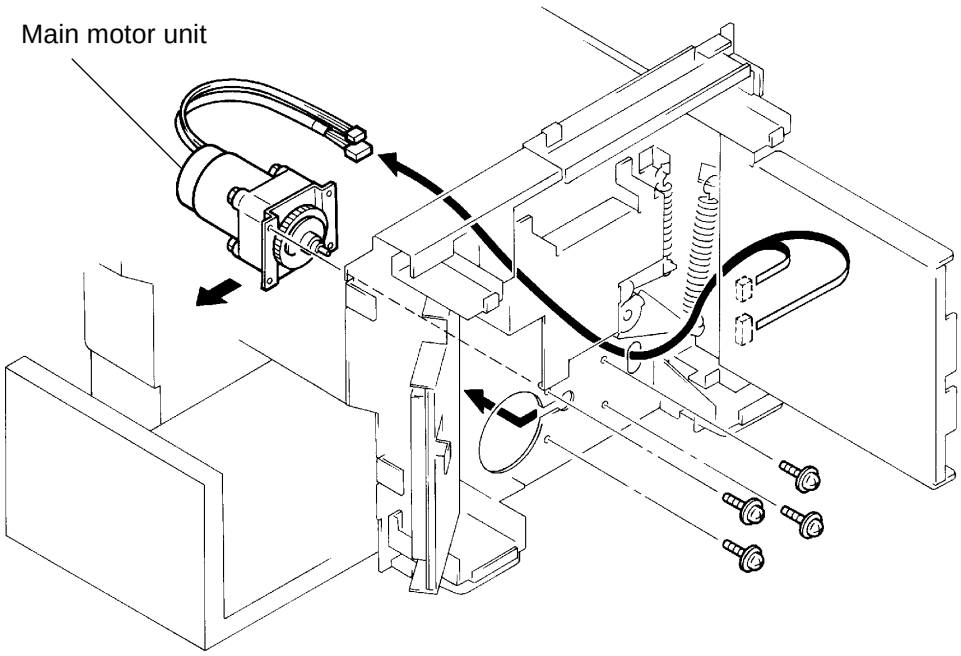
(continues on page 3-8)



8. Remove two mounting screws of the Locking plate R and remove the plate.
9. Remove three mounting screws of the Slide guide R and remove the guide.



10. Disconnect two connectors of the Main motor unit from the System PCB.
11. Remove four mounting screws of the Main motor unit and remove the unit from the machine.



Precautions in Assembly

- Match the half-pierced sections of the Locking plate R and Slide guide R against those on the machine frame.
- Match the half-pierced sections of the Solenoid base ass'y and Separation base ass'y against those on the machine frame.

Adjustment after Assembly

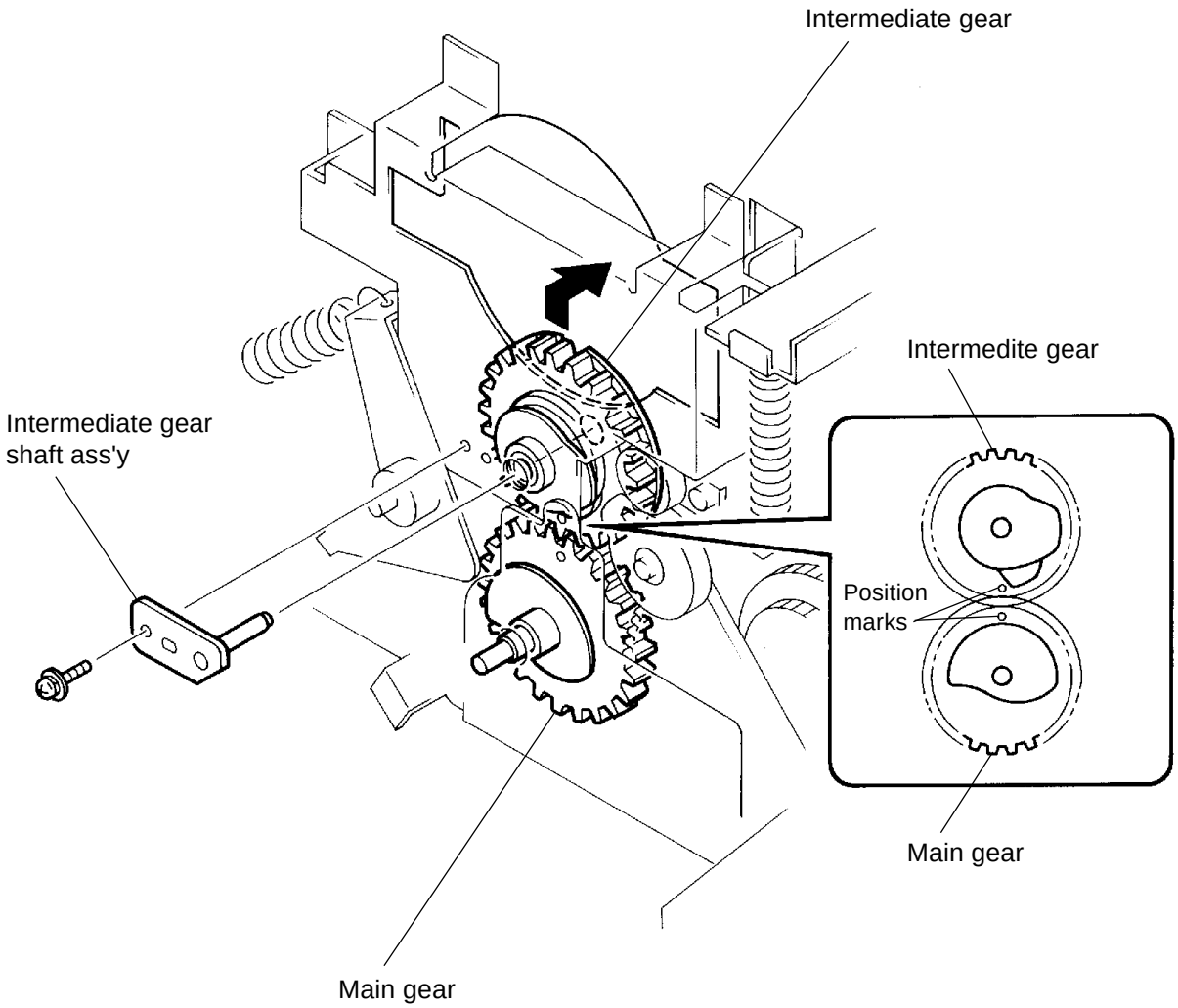
- Adjust the position of the Pressure lever. (page 6-11)

2. Intermediate Gear

1. Remove the Drum from the machine.
2. Disconnect the power supply from the machine.
3. Remove Back cover.
4. Open the Main PCB bracket frame.
5. Remove mounting screw of the Intermediate gear shaft ass'y and remove the ass'y.
6. Remove the Intermediate gear from the operation panel side (drum opening) of the machine.

Precautions in Assembly

- Align the Position mark on the Intermediate gear with that on the Main gear.

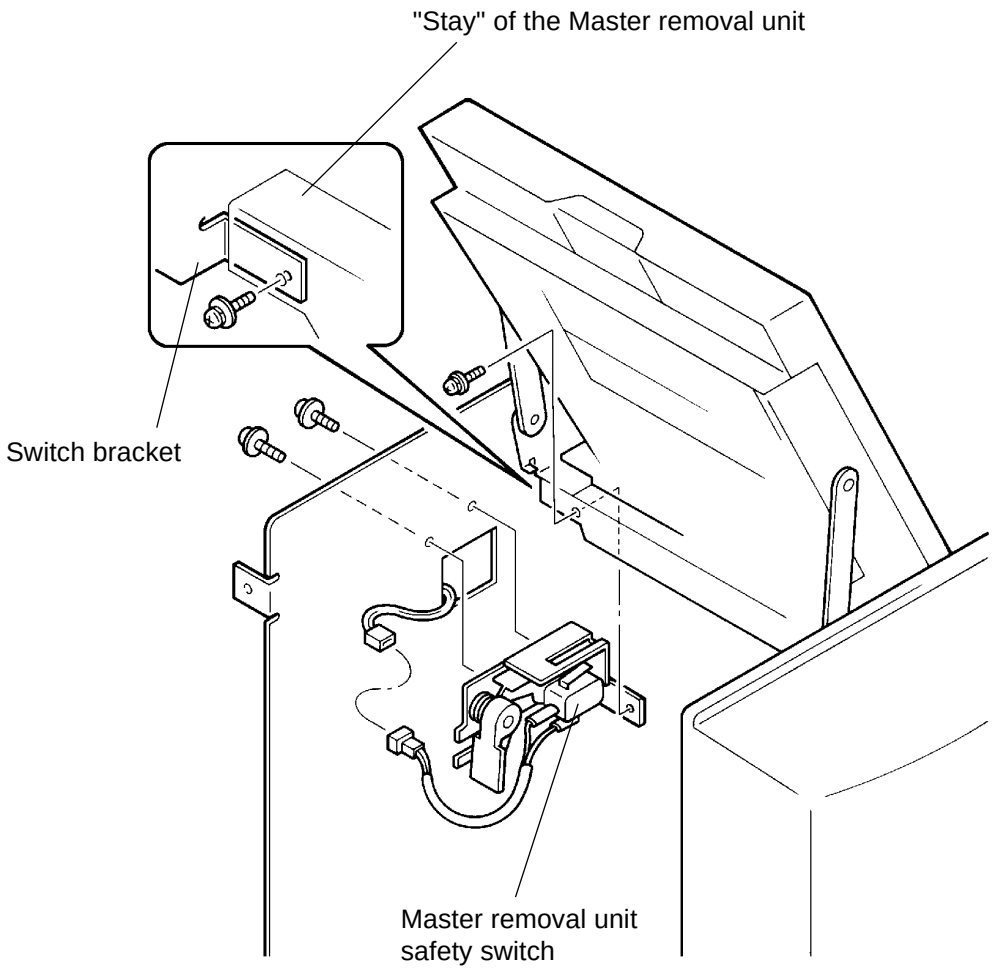


3. Master Removal Unit Safety Switch

1. Lower the Paper feed tray.
2. Disconnect the power supply from the machine.
3. Remove Back cover and Master removal lower cover.
4. Open the Main PCB bracket frame.
5. Open the Master removal unit and disconnect the Connector of the Master removal unit safety switch.
6. Remove three mounting screws of the Switch bracket and remove the bracket with the switch attached.
7. Remove the switch from the bracket.

Precautions in Assembly

- The mounting section of the bracket should be positioned behind the stay of the Master removal unit.
- Match the half-pierced section on the Switch bracket with that on the machine.

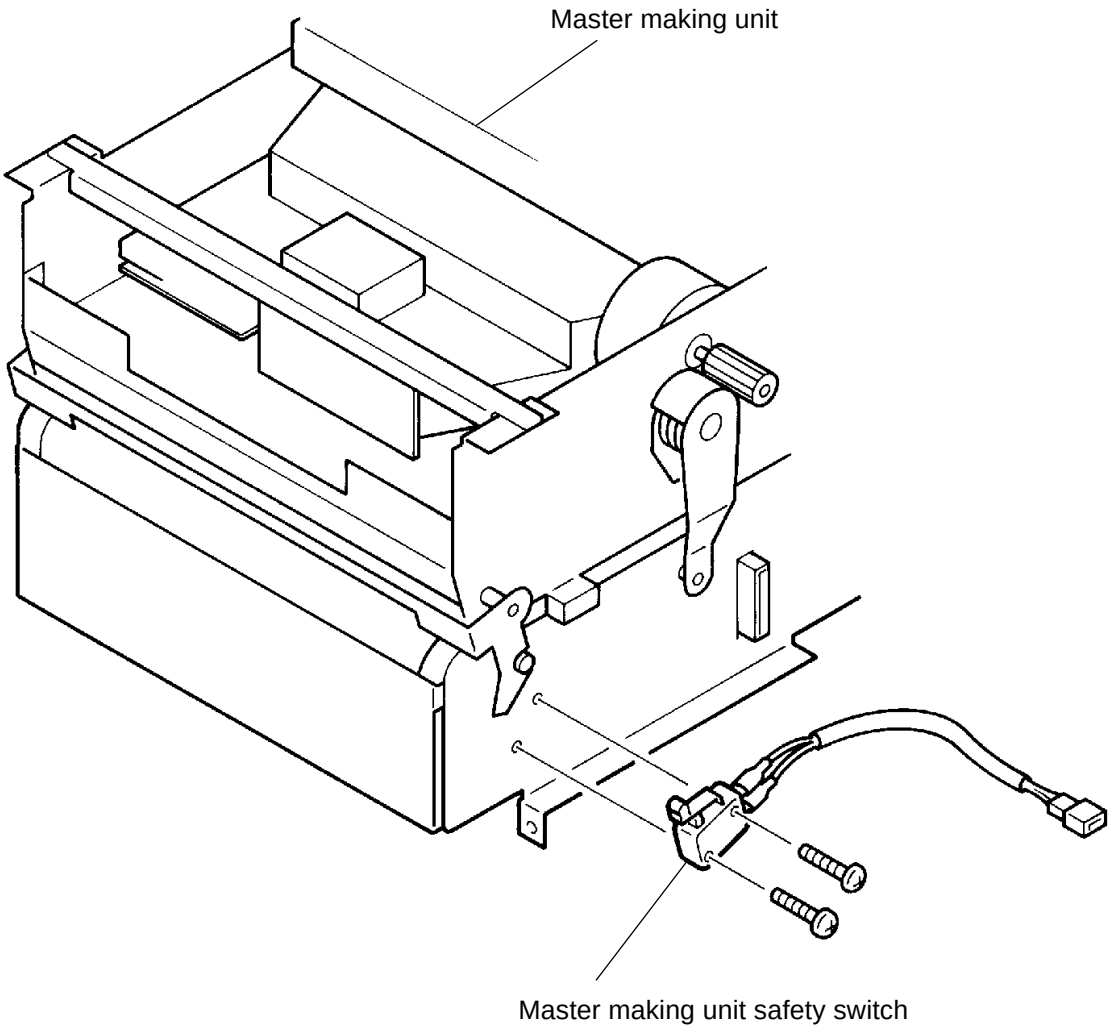


4. Master Making Unit Safety Switch

1. Lower the Paper feed tray.
2. Disconnect the power supply from the machine.
3. Remove following seven covers.
   • Back cover, Front cover, Master removal upper cover, Master removal lower cover, ADF cover, ADF unit cover and Master making unit cover.
4. Remove the Master removal unit. (page 11-13)
5. Remove the Master making unit. (page 15-17)
6. Remove two mounting screws of the Master making unit safety switch located on the Master making unit and remove the switch from the unit.

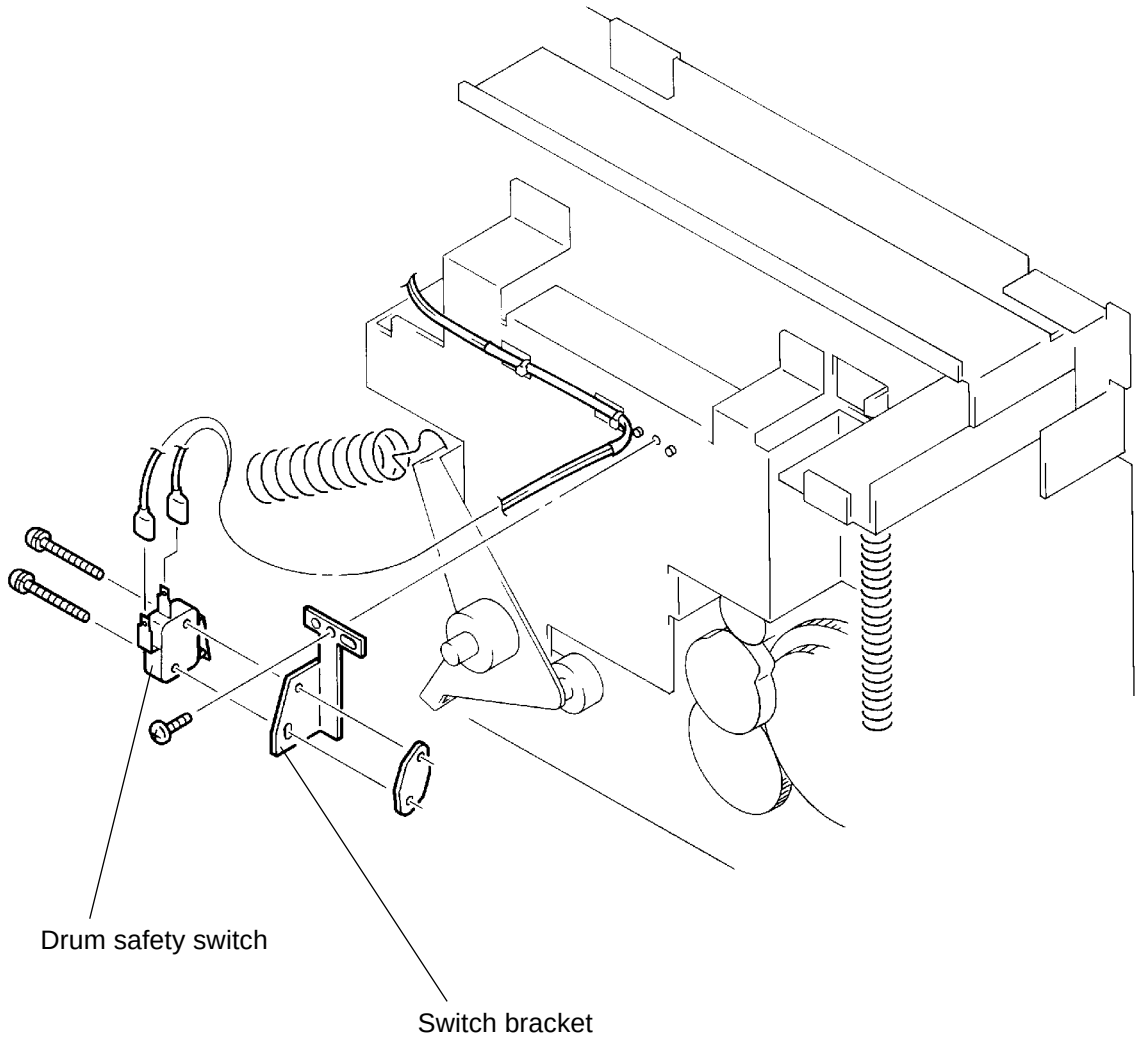
Precautions in Assembly

• Install the switch in the correct direction.



5. Drum Safety Switch

1. Remove the Drum from the machine.
2. Disconnect the power supply from the machine.
3. Remove the Back cover.
4. Open the Main PCB bracket frame.
5. Disconnect the Connector of the Drum safety switch.
6. Remove the mounting screw of the Switch bracket and remove the bracket with the switch attached.
7. Remove the switch from the bracket.

Precautions in Assembly

- Do not bend the Switch bracket, as it acts as a spring plate to press against the actuator of the switch when the Drum is inserted in the machine.